

CAT 3 U/UTP CMR 100PAIR/24AWG

PART NO. 3CMR24100RG



DESCRIPTION

• 24 AWG/100 Pair unshielded twisted pair
1000' feet solid copper on wood reels. Cable comes with standard ripcord for stripping jacket and it is marked every two feet so one can see how much cable is left on the Reel.

FEATURES AND BENEFITS

- Used for Voice communications
- Jacket: Flame - retardant PVC / Sequential footage markings
- Rip Cord is applied longitudinally under jacket
- Verified by third-party for guaranteed performance

APPLICATIONS

- Voice/Telephone/Fast Ethernet
- 10 Base - T
- 100 Base - T4
- 100 Base - X 100 Base - VG
- 4/16 Mbps Token Ring ANSI X3T9.5 TP - PMD (FDDI)
- ATM PMD 155 Mbps

STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

PHYSICAL PROPERTIES

	CMR (Non-Plenum)
Conductor	Solid Bare Copper
Conductor Diameter (mm)	0.50
Average Thickness (±0.03mm)	0.16
Minimum Point Thickness (mm)	0.15
Unit Lay Length (mm)	500 underneath
Color Tape Lay Length (mm)	<150
Maximum Pulling Force (lbs)	
Twisting Lay Length	80 underneath
100P Cabling Lay Length (mm)	800 underneath
Installation Dia (±0.05mm)	0.83

	CMR (Non-Plenum)	
Filler	Without	
Average Thickness (±0.1mm)	0.80	
Minimum Point Thickness (mm)	0.75	
Before Aging	Tensile Strength (Mpa)	≥13.8
	Elongation (%)	≥100
After Aging	Tensile Strength (Mpa)	≥85% of unaged
	Elongation (%)	≥50% of unaged
Cold Bend (No Crack)	-20±2°Cx4hrs	
Temperature Rating	-20°C to +75°C	
Max Pull Strength	200N	
Aging Condition (°Cxhrs)	100x240	
Standard Color	Gray	

ELECTRICAL CHARACTERISTICS

Elongation of Conductor	Min 15%
Elongation of Insulation	Min 300%
Tensile Strength of Insulation	Min 6Mpa
Shrinkage of Insulation	Max 5%
Elongation of Jacket (unaged)	Min 200%
Tensile strength of Jacket (unaged)	Min 12Mpa
Capacitance	56pF/km
Capacitance unbalance	500pF/100km
Max. Conductor DC Resistance 20°C	≤93.8
Resistance Unbalance (%)	≤5
Insulation Resistance	5000MΩ-km
Dielectric Strength	DC. 1.5kv, 7min

CAT 3 U/UTP CMR 25PAIR/24AWG ELECTRICAL SPECIFICATION				
FREQUENCY (MHz)	ATTENUATION (DB/100m)	NEXT (DB)	SRL (DB)	IMPEDANCE (DB/100m)
0.772	2.2	43	12	100 ± 15
1	2.6	41	12	100 ± 15
4	5.6	32	12	100 ± 15
8	8.5	28	12	100 ± 15
10	9.7	26	12	100 ± 15
16	13.1	23	10	100 ± 15

100 PAIR			COLOR CODE		
Pair 1	BL	W	Pair 46	BL	VT
Pair 2	OR	W	Pair 47	OR	VT
Pair 3	GR	W	Pair 48	GR	VT
Pair 4	BN	W	Pair 49	BN	VT
Pair 5	G	W	Pair 50	G	VT
Pair 6	BL	R	Pair 51	BL	W
Pair 7	OR	R	Pair 52	OR	W
Pair 8	GR	R	Pair 53	GR	W
Pair 9	BN	R	Pair 54	BN	W
Pair 10	G	R	Pair 55	G	W
Pair 11	BL	B	Pair 56	BL	R
Pair 12	OR	B	Pair 57	OR	R
Pair 13	GR	B	Pair 58	GR	R
Pair 14	BN	B	Pair 59	BN	R
Pair 15	G	B	Pair 60	G	R
Pair 16	BL	Y	Pair 61	BL	B
Pair 17	OR	Y	Pair 62	OR	B
Pair 18	GR	Y	Pair 63	GR	B
Pair 19	BN	Y	Pair 64	BN	B
Pair 20	G	Y	Pair 65	G	B
Pair 21	BL	VT	Pair 66	BL	VT
Pair 22	OR	VT	Pair 67	OR	VT
Pair 23	GR	VT	Pair 68	GR	VT
Pair 24	BN	VT	Pair 69	BN	VT
Pair 25	G	VT	Pair 70	G	VT
Pair 26	BL	W	Pair 71	BL	W
Pair 27	OR	W	Pair 72	OR	W
Pair 28	GR	W	Pair 73	GR	W
Pair 29	BN	W	Pair 74	BN	W
Pair 30	G	W	Pair 75	G	W
Pair 31	BL	R	Pair 76	BL	R
Pair 32	OR	R	Pair 77	OR	R
Pair 33	GR	R	Pair 78	GR	R
Pair 34	BN	R	Pair 79	BN	R
Pair 35	G	R	Pair 80	G	R
Pair 36	BL	B	Pair 81	BL	B
Pair 37	OR	B	Pair 82	OR	B
Pair 38	GR	B	Pair 83	GR	B
Pair 39	BN	B	Pair 84	BN	B
Pair 40	G	B	Pair 85	G	B
Pair 41	BL	Y	Pair 86	BL	VT
Pair 42	OR	Y	Pair 87	OR	VT
Pair 43	GR	Y	Pair 88	GR	VT
Pair 44	BN	Y	Pair 89	BN	VT
Pair 45	G	Y	Pair 90	G	VT
Pair 91	BL	W			
Pair 92	OR	W			
Pair 93	GR	W			
Pair 94	BN	W			
Pair 95	G	W			
Pair 96	BL	R			
Pair 97	OR	R			
Pair 98	GR	R			
Pair 99	BN	R			
Pair 100	G	R			

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